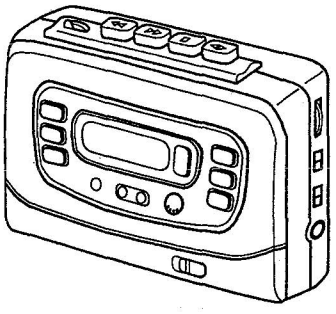
aiwa

aiwa SERVICE

HS-TX676
HS-TX776

SERVICE MANUAL



STEREO RADIO CASSETTE PLAYER

- BASIC TAPE MECHANISM: 7ZM–5 P1N
- TYPE: YL(676), YH(676), YK(676), YZ(676), YJ(676), YU

S/M Code No. 09–975–192–4FE

SPECIFICATIONS

Frequency range:
YU,YL :
AM: 531/530 – 1,602/1,710 kHz (9/10 kHz step)
531 – 1,629 kHz (9 kHz step)
FM: 87.5/87.5 – 108/108.1 MHz (50/200 kHz step)
76 – 108 MHz (100 kHz step in 76 – 90 MHz,
50 kHz step in 90 – 108 MHz)
YK,YZ,YH,YJ :
AM: 531/530 – 1,602/1,710 kHz (9/10 kHz step)
FM: 87.5/87.5 – 108/108.1 MHz (50/200 kHz step)

Maximum output:
20 mW + 20 mW (EIAJ/16Ω)
15 mW + 15 mW (EIAJ/32Ω)

Power source:
Battery DC 3V, size AA (R6) X 2
YK,YZ, :
Domestic AC power (using optional AC adaptor :
AIWA AC–300/AC-302)
YU,YL,YH,YJ :
Domestic AC power (using optional AC adaptor:
AIWA AC–620/AC-302)

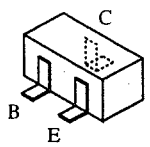
Battery life (EIAJ, 1 mW output, playback):
Approx. 5 hours using size AA (R6P) manganese batteries
Approx. 22 hours using size AA (LR6) alkaline batteries

Maximum dimensions (W x H x D):
112.6 x 86.8 x 34.9 mm
(4½ x 3½ x 1⅜ inches)

Weight (including batteries):
Approx. 214.6g (7.5 oz)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

TRANSISTOR ILLUSTRATION



2SA1162	RN1404
2SC2712	RN1411
2SC2714	RN2405
CSA1362	RN2411

ACCESSORIES / PACKAGE LIST

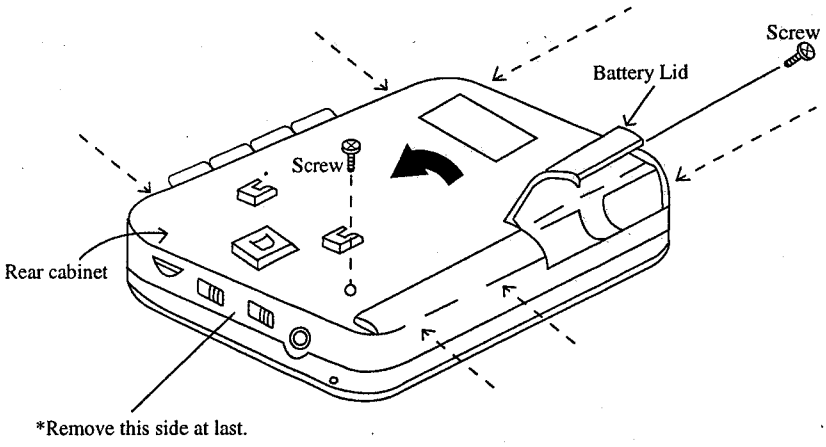
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HRA-903-010		IB,Y (EGI)-M<YZ>
1	87-HRA-902-010		IB,Y (ESF)-M<YK,YZ>
1	87-HRA-904-010		IB,YJ (ESC)-M<YH,YJ>
1	87-HRA-901-010		IB,YU (ESF)-M<YU,YL>
2	84-447-019-310		CLIP, BELT
3	87-B30-079-010		HEADPHONE,HP-M007<YL,YH,YK,YJ,YZ>
3	87-B30-081-010		HEADPHONE,HP-M009(S)<676YU>
3	87-B30-082-010		HEADPHONE,HP-MR010(F)<776YU>

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF REAR CABINET

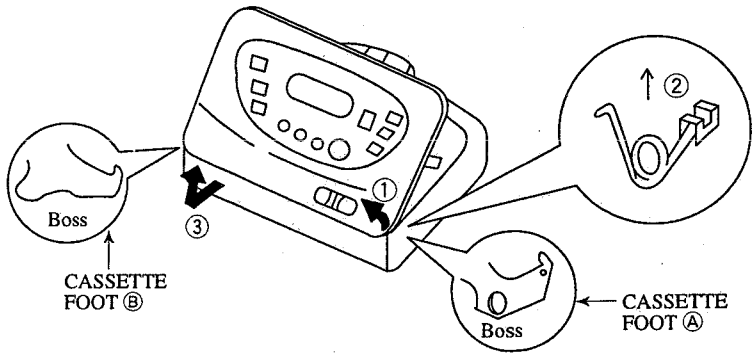
1) Remove the two screws and open the battery lid.
2) Press on the rear cabinet indicated by the broken line arrows so that the catches are released. Remove the rear cabinet in the direction of the bold arrow.



2. REMOVAL OF CASSETTE LID

Note: Be careful not to break the cassette foots when removing the cassette lid.

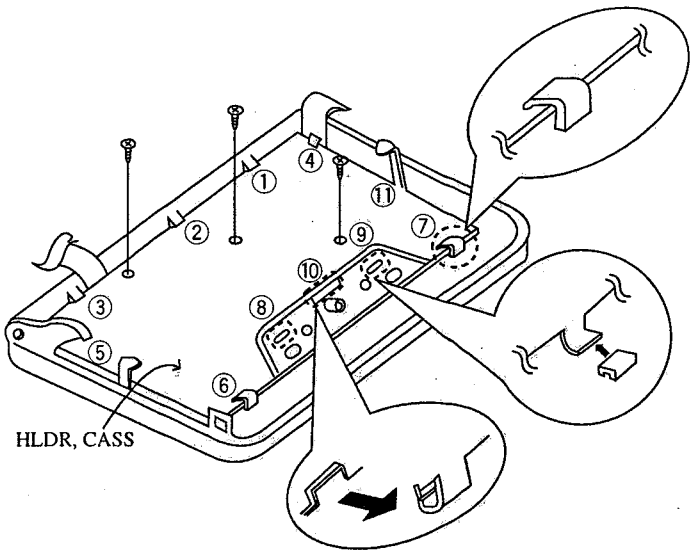
1) Apply a little bit of force in the direction of the ① to the cassette lid and pull out the cassette foot Ⓐ.
2) Remove the T-spring in the direction of the ②.
3) Pull out the CASSETTE FOOT Ⓑ in the direction of the ③, the whole cassette lid can be removed.



3. REMOVAL OF THE HLDR, CASS

1) Remove the 3 screws.
2) Release the hooks in the sequence of ①, ②, ③ and ④.
3) Lift the HLDR, CASS slightly up and release hook ⑤.
4) Release hooks in the sequence of ⑥, ⑦, ⑧, ⑨, ⑩ and ⑪.

CAUTION: Be careful not to break any hooks when removing the HLDR, CASS.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

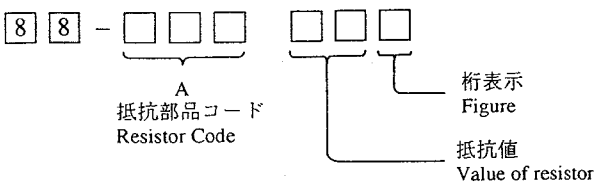
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-544-040		IC,MM1376AF
	87-A20-532-040		IC,LB1977M
	87-001-379-080		C-IC,TA8122AF
	87-A20-505-010		C-IC,TC9318FB-019
	87-A20-124-080		IC,TK11823
	87-001-934-080		C-IC,BA1106F
TRANSISTOR			
	87-026-261-080		C-TR,RN1404
	87-A30-085-070		C-TR,CSA1362GR
	89-111-625-080		C-TR,2SA1162GR
	87-026-268-080		C-TR,RN2411
	89-327-143-080		C-TR,2SC2714(O)
	87-026-581-080		C-TR,RN2405
	89-327-125-080		C-TR,2SC2712GR
	87-026-264-080		C-TR,RN1411
DIODE			
	87-A40-360-080		C-DIODE,MA786
MAIN C.B			
BPF101	83-HRD-604-010		FLTR, GFWB3-1
C1	87-010-178-080		C-CAP,S 1000P-50 K B
C2	87-010-178-080		C-CAP,S 1000P-50 K B
C3	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C4	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C5	87-016-436-080		C-CAP,TN 47-4 B2
C6	87-010-501-040		CAP,E 47-4 M 5L SRE
C7	87-010-213-080		C-CAP,S 0.015-25 K B
C8	87-010-213-080		C-CAP,S 0.015-25 K B
C9	87-016-462-080		C-CAP,S 1-16 Z F
C10	87-016-462-080		C-CAP,S 1-16 Z F
C11	87-016-462-080		C-CAP,S 1-16 Z F
C12	87-016-462-080		C-CAP,S 1-16 Z F
C13	87-010-314-080		C-CAP,S 22P-50 J CH
C14	87-010-180-080		C-CAP,S 1500P-50 K B
C15	87-010-180-080		C-CAP,S 1500P-50 K B
C16	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C17	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C18	87-010-503-040		CAP,E 220-4 M 5L SRE<776 ONLY>
C19	87-010-503-040		CAP,E 220-4 M 5L SRE<776 ONLY>
C20	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C21	87-010-498-040		CAP,E 10-16 M 5L SRE
C22	87-010-822-040		CAP,E 220-4 M MJ
C23	87-010-822-040		CAP,E 220-4 M MJ
C24	87-010-822-040		CAP,E 220-4 M MJ
C25	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C26	87-010-498-040		CAP,E 10-16 M 5L SRE
C27	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C28	87-010-503-040		CAP,E 220-4 M 5L SRE
C51	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C52	87-016-526-080		C-CAP,S 0.47-16 BK
C53	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C54	87-010-502-040		CAP,E 100-4 M 5L SRE
C55	87-016-460-080		C-CAP,S 0.22-16 BK
C56	87-016-669-080		C-CAP,S 0.1-25 K
C57	87-016-669-080		C-CAP,S 0.1-25 K B
C58	87-016-669-080		C-CAP,S 0.1-25 K B
C59	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C61	87-016-669-080		C-CAP,S 0.1-25 K B
C101	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C102	87-010-175-080		C-CAP,S 560P-50 J SL
C103	87-010-194-080		C-CAP,S 0.047-25 Z F
C104	87-010-148-080		C-CAP,S 4P-50 CH
C105	87-010-319-080		C-CAP,S 56P-50 J CH
C106	87-010-197-080		C-CAP,S 0.01-25 K B
C107	87-010-197-080		C-CAP,S 0.01-25 K B
C108	87-010-320-080		C-CAP,S 68P-50 D CH
C109	87-010-146-080		C-CAP,S 2P-50 C CH GRM
C110	87-010-318-080		C-CAP,S 47P-50 J CH
C111	87-010-145-080		C-CAP,S 1P-50 CH
C112	87-010-197-080		C-CAP,S 0.01-25 K B
C113	87-010-197-080		C-CAP,S 0.01-25 K B
C114	87-010-152-080		C-CAP,S 8P-50 D CH
C115	87-010-154-080		C-CAP,S 10P-50 D CH
C116	87-010-822-040		CAP,E 220-4 M MJ
C117	87-012-141-080		C-CAP,S 0.22-16 Z F
C118	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C119	87-012-141-080		C-CAP,S 0.22-16 Z F
C120	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C121	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C122	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C123	87-010-197-080		C-CAP,S 0.01-25 K B
C124	87-010-197-080		C-CAP,S 0.01-25 K B
C125	87-010-194-080		C-CAP,S 0.047-25 Z F
C126	87-010-194-080		C-CAP,S 0.047-25 Z F
C127	87-010-178-080		C-CAP,S 1000P-50 K B
C128	87-010-178-080		C-CAP,S 1000P-50 K B
C129	87-010-500-040		CAP,E 33-4 M 5L SRE
C130	87-016-462-080		C-CAP,S 1-16 Z F
C131	87-010-197-080		C-CAP,S 0.01-25 K B
C132	87-010-197-080		C-CAP,S 0.01-25 K B
C133	87-010-197-080		C-CAP,S 0.01-25 K B
C134	87-010-145-080		C-CAP,S 1P-50 CH
C135	87-010-175-080		C-CAP,S 560P-50 J SL
C138	87-010-503-040		CAP,E 220-4 M 5L SRE
C140	87-010-197-080		C-CAP,S 0.01-25 K B
C141	87-010-197-080		C-CAP,S 0.01-25 K B
C142	87-010-187-080		C-CAP,S 5600P-50 K B<YU ONLY>
C143	87-010-322-080		C-CAP,S 100P-50 J CH
C315	87-010-820-040		CAP,E 47-4 M MJ
C351	87-010-186-080		C-CAP,S 4700P-50 K B
C352	87-010-186-080		C-CAP,S 4700P-50 K B
C353	87-010-193-080		C-CAP,S 0.033-25 Z F C2012
C354	87-010-193-080		C-CAP,S 0.033-25 Z F C2012
C355	87-010-197-080		C-CAP,S 0.01-25 K B
C356	87-010-197-080		C-CAP,S 0.01-25 K B
C357	87-010-193-080		C-CAP,S 0.033-25 Z F C2012
C358	87-010-193-080		C-CAP,S 0.033-25 Z F C2012
C359	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C360	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C361	87-010-820-040		CAP,E 47-4 M MJ
C501	87-010-817-040		CAP,E 10-16 M MJ
C502	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<YK,YZ>
C503	87-010-322-080		C-CAP,S 100P-50 J CH<YK,YZ>
CF101	87-A90-065-010		FLTR,AFCFA-450 L02
CF102	87-008-264-010		FLTR,CF FMSFE10.7MS2
CF103	87-008-509-010		FLTR,CDA107MG16H-A
CF104	87-A70-080-010		VIB,CER 19KHZ CMU2F456A01J
D101	87-A40-290-080		C-VARI-CAP,KV1590
D102	87-026-360-080		C-VARI-CAP,KV1430
D103	87-026-360-080		C-VARI-CAP,KV1430
J1	87-A60-122-010		JACK,DC 3.8 W/SW
J2	87-A60-180-010		JACK,3.5 BLK ST 4P<776 ONLY>
J2	87-099-459-010		JACK,3.5 BLK ST W/O SW<676 ONLY>
L1	87-A50-185-010		COIL,RF CHOKE
L2	87-003-243-080		C-COIL,2125 10UH K MLF2012 <776 ONLY>
L101	87-HRA-603-010		BAR-ANT,MW
L102	87-HRA-606-010		COIL,FM RF
L103	87-HRA-607-010		COIL,OSC FM
L104	87-003-226-080		COIL,100UH J LAL02
L105	85-HRE-619-010		IFT,AM
SFR1	87-A90-226-010		C-SFR,500 H POZ3AN
SFR2	87-A90-226-010		C-SFR,500 H POZ3AN
SFR51	87-A90-476-080		C-SFR,B303 VG033CPXT
SW1	87-A90-423-010		SW,LEAF

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SW2	87-A90-050-010		SW,SL 2-2-2 NS (BLK)
SW3	87-A90-422-010		SW,SL 2-2-2
SW351	87-A90-050-010		SW,SL 2-2-2 NS (BLK)
SW501	87-A90-419-010		C-SW,SL 1-1-3<YK,YZ>
TH51	87-A90-477-080		C-THMS,157-502-53002-TP
VC101	87-A90-512-010		TRIMMER,CER 20P 3.9X4.5 VCT35E
VR1	87-A90-479-010		VR,RTRY 20KAX2
CONTROL C.B			
C205	87-010-197-080		C-CAP,S 0.01-25 K B
C206	87-010-452-080		C-CAP, 1-16 Z F GRM42-6
C207	87-010-197-080		C-CAP,S 0.01-25 K B
C208	87-010-149-080		C-CAP,S 5P-50 CH
C209	87-010-319-080		C-CAP,S 56P-50 J CH
C210	87-010-152-080		C-CAP,S 8P-50 D CH
C211	87-016-462-080		C-CAP,S 1-16 Z F
C212	87-016-462-080		C-CAP,S 1-16 Z F
C213	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C214	87-016-462-080		C-CAP,S 1-16 Z F
C215	87-016-462-080		C-CAP,S 1-16 Z F
C216	87-016-462-080		C-CAP,S 1-16 Z F
C217	87-010-314-080		C-CAP,S 22P-50 J CH
C218	87-010-312-080		C-CAP,S 15P-50 J CH
C219	87-012-142-080		C-CAP,S 0.33-16 Z F
C220	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C221	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C222	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C224	87-010-178-080		C-CAP,S 1000P-50 K B<776 ONLY>
C226	87-010-197-080		C-CAP,S 0.01-25 K B
C233	87-010-178-080		C-CAP,S 1000P-50 K B
C234	87-016-462-080		C-CAP,S 1-16 Z F
C301	87-016-462-080		C-CAP,S 1-16 Z F
C302	87-016-462-080		C-CAP,S 1-16 Z F
C303	87-010-184-080		C-CAP,S 3300P-50 K B

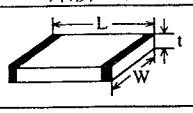
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C304	87-010-184-080		C-CAP,S 3300P-50 K B
C305	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C306	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C307	87-016-462-080		C-CAP,S 1-16 Z F
C308	87-016-462-080		C-CAP,S 1-16 Z F
C309	87-010-189-080		C-CAP,S 8200P-50 K B
C310	87-010-189-080		C-CAP,S 8200P-50 K B
C311	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C312	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C313	87-010-188-080		C-CAP,S 6800P-50 K B
C314	87-010-188-080		C-CAP,S 6800P-50 K B
L201	87-A50-037-080		C-COIL,D-D 5CDLU 796KHZ
LCD201	87-HRA-605-010		LCD,HS ASSY(BAND/TU)
R205	87-022-353-080		C-RES,S 6.8K-1/10W F
R206	87-022-363-080		C-RES,S 68K-1/10W F<776 ONLY>
R217	87-022-353-080		C-RES,S 6.8K-1/10W F
R224	87-022-361-080		C-RES,S 47K-1/10W F
R242	87-022-363-080		C-RES,S 68K-1/10W F<676 ONLY>
SW213	87-036-304-080		C-SW,SL 1-1-2 SS-350
TH201	87-A90-547-080		C-THMS,47K (5%)NTH5G2M35A 04TE
X201	87-A70-082-010		VIB,XTAL 75KHZ
HEAD FLEX C.B			
PH1	87-A90-435-010		HEAD ASSY 7ZM-5
FLEX C.B			

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

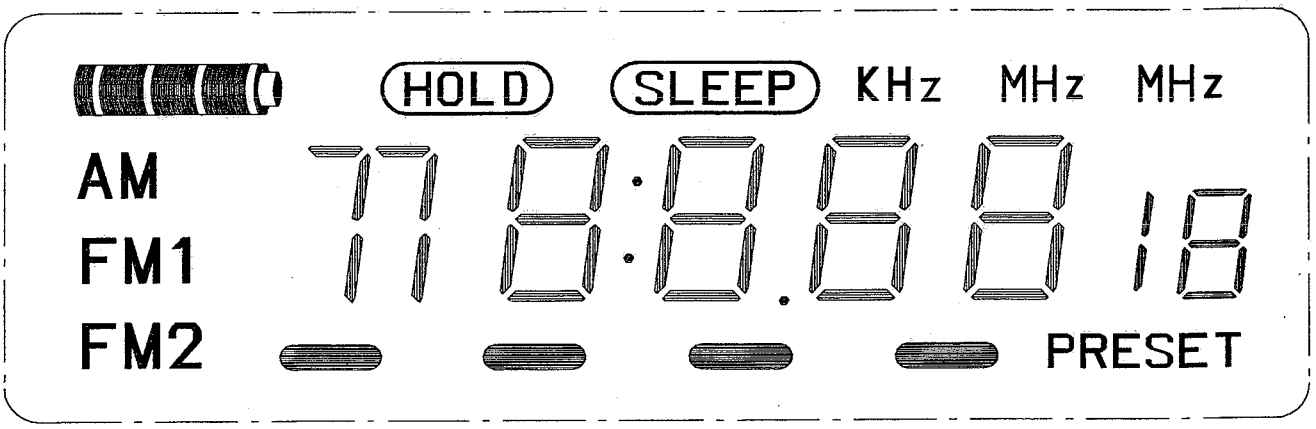
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code: A
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

LCD DIAGRAM

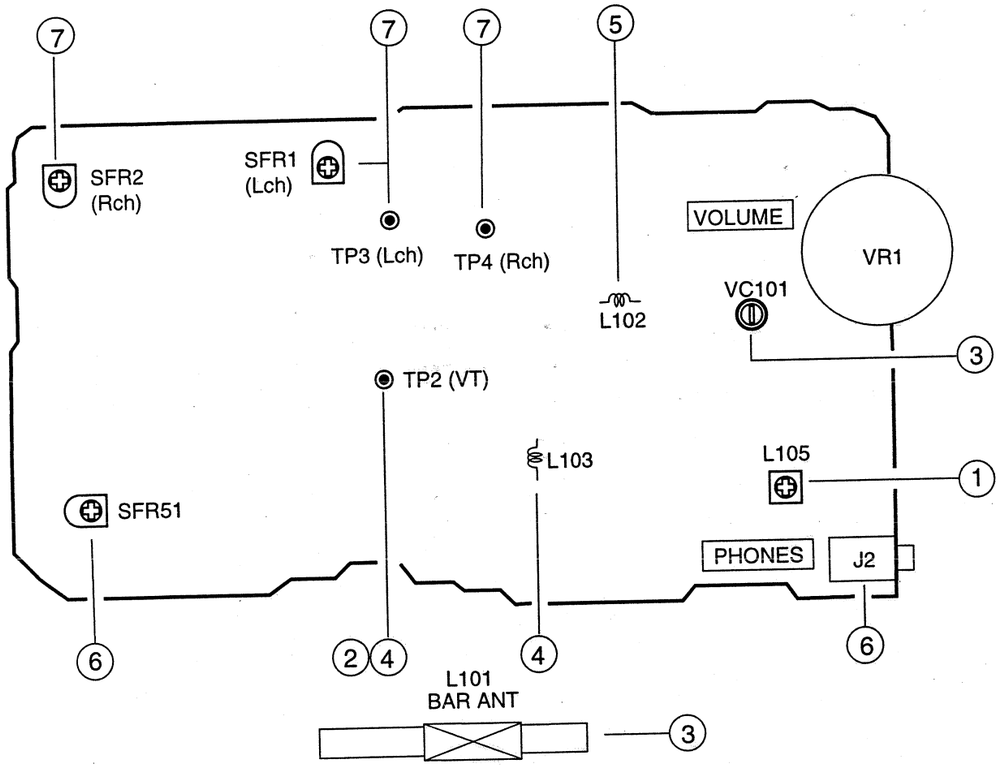


NO.	1	2	3	4	5	6	7	8	9	10	11
COM1	—	—	COM1	FM2	FLAT	1	1E	1Đ	POP	COL	2E
COM2	—	COM2	—	FM1	MIĐ	T	1F	1G	1C	SLP	2F
COM3	COM3	—	—	AM	EMP	FULL	MOLĐ	1A	1B	—	2A

NO.	12	13	14	15	16	17	18	19	20	21
COM1	2Đ	ROCK	P	3Đ	JAZZ	4E	4Đ	PRE	5Đ	5C
COM2	2G	2C	3E	3C	4F	4G	4C	4E	5G	5B
COM3	2B	3F	3G	3B	3A	4A	4B	1-1	5F	5A

ADJUSTMENT

A MAIN C.B



<RADIO SECTION>

1. AM IF Adjustment
   L105 ..... 1000kHz

2. AM VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to AM 530kHz and TP2, check the test point is more than 0.8V. Then set to AM 1710 kHz and check the test point is less than 7.5V.

3. AM Tracking Adjustment
   L101 ..... 630kHz
   VC101 ..... 1440kHz

4. FM VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L103
   Method : Set to FM 76MHz and adjust L103 so that the test point becomes 1.0V ± 0.1V. Then set to FM 108MHz and check the test point is 9.0V ± 1.0V.

5. FM Tracking Adjustment
   L102 ..... 76MHz

<TAPE PLAYER SECTION>

6. Tape Speed Adjustment
   Settings : • Test tape : TTA–100 (TAPE CENTRE)
   • Test point : PHONES JACK (J2)
   • Adjustment location : SFR51
   • MSP : FLAT
   • TAPE SELECTOR : NORM
   • DIRECTION : FWD
   • VOLUME : NON-CLIP (MAX -10dB DOWN)
   Method : Play back the test tape and adjust for 3000 ± 10Hz.

7. Dolby Level Adjustment
   Settings : • Test tape : TTA–200
   • Test point : TP3 (Lch), TP4 (Rch)
   • Adjustment location : SFR1 (Lch)
   SFR2 (Rch)
   • DOLBY SW : OFF
   • TAPE SELECTOR : NORM
   • DIRECTION : FWD & REV
   Method : Play back the test tape (FWD&REV) and adjust SFR1, 2 so that the test point is 100mV+1/-0dB.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

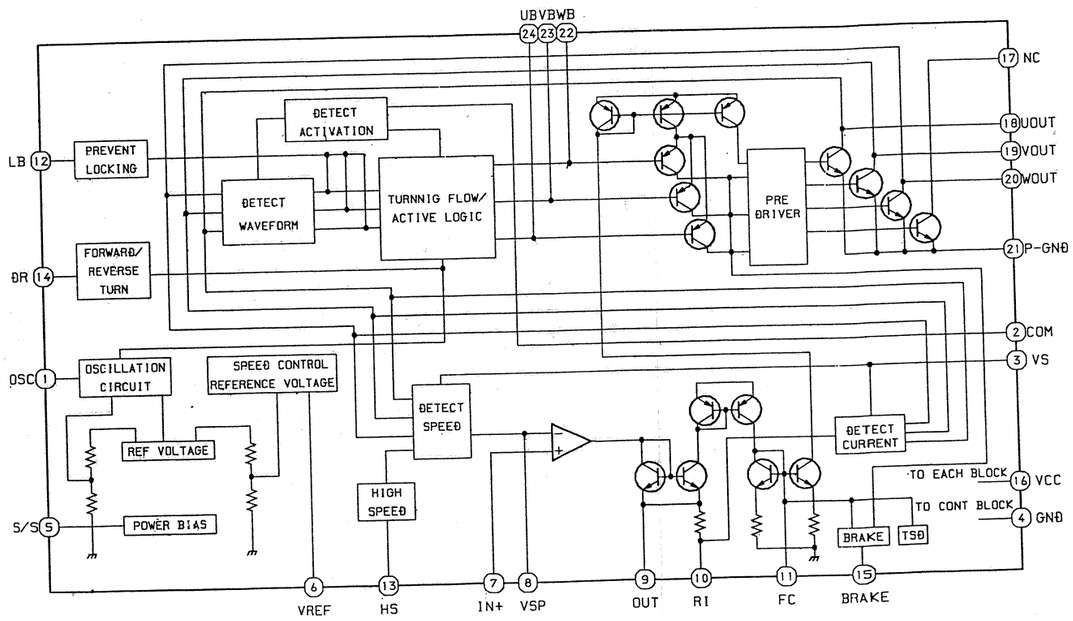
Sensitivity :		
(IHF, THD 3%)	FM	Less than 20dB [at 76MHz (YU only)] [at 87.5MHz (Except YU)]
		Less than 20dB [at 90MHz (YU only)] [at 98.1MHz (Except YU)]
		Less than 21dB [at 108.0MHz]
(S/N 10dB)	AM	Less than 59dB [at 630kHz]
		Less than 56dB [at 1000kHz (YU only)] [at 999kHz (Except YU)]
		Less than 56dB [at 1440kHz]
Intermediate frequency :	FM	10.7MHz ± 0.1MHz
	AM	450kHz ± 3kHz
FM stereo separation :		More than 16dB [at 90MHz (YU only)] [at 98.1MHz (Except YU)]

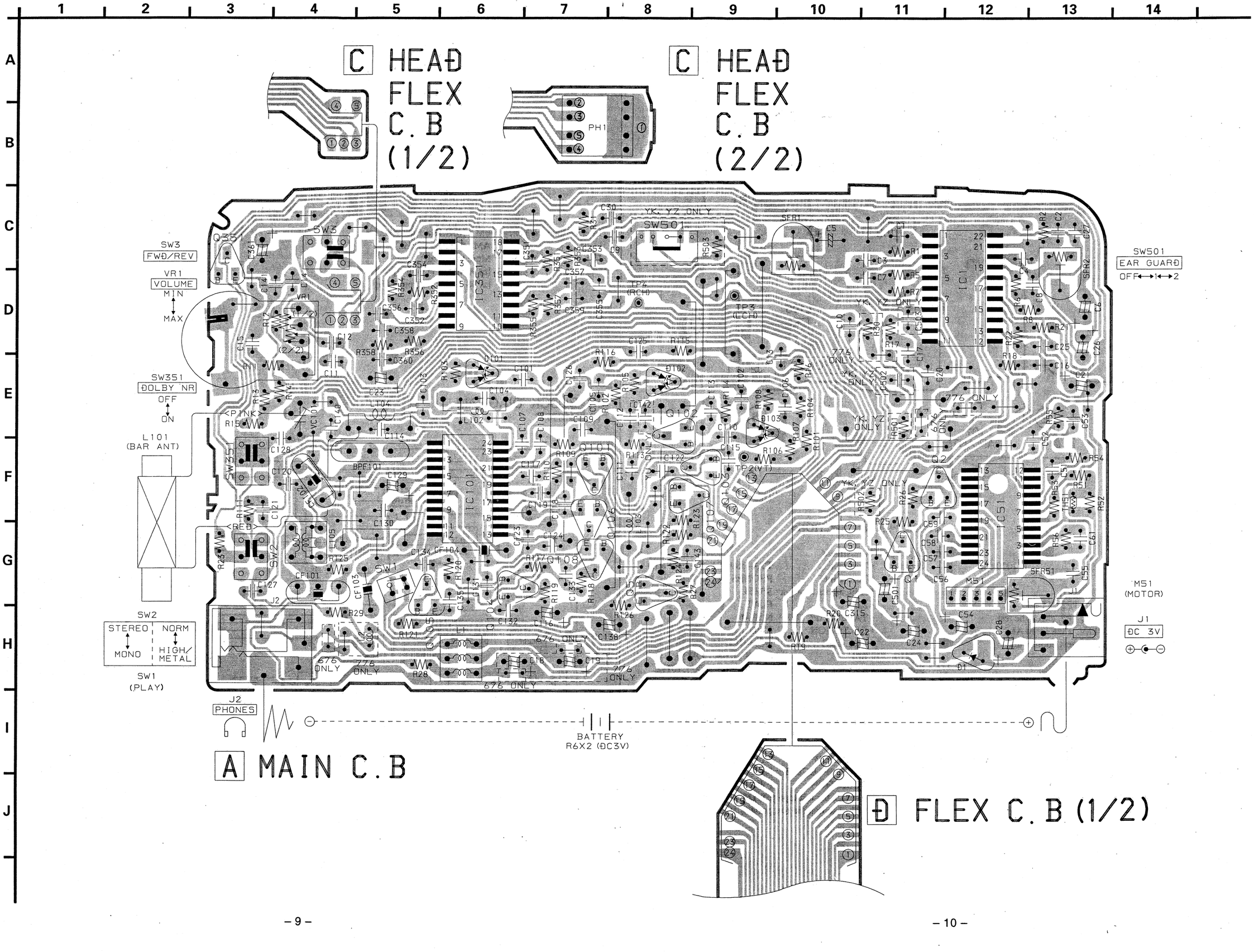
<TAPE SECTION>

Tape speed :	3015Hz ± 50Hz
Wow & flutter :	Less than 0.50% (RMS)
Take-up torque :	24 ~ 35g-cm (FWD, REV)
F.F torque :	70 ~ 150g-cm
Rew torque :	70 ~ 150g-cm
Back tension :	1.5 ~ 4g-cm (FWD, REV)
S/N ratio :	More than 43dB (PB, DC)
Distortion :	Less than 3.0% (PB, DC)
Noise level :	Less than 7.0mV (Vol MAX, PB, DC)
Frequency response :	63Hz +1/-6dB ~ 8kHz ± 3dB (NORMAL)
	63Hz +1/-6dB ~ 10kHz ± 3dB (CrO2, METAL)
Test tape :	MTT– 15070
	TTA– 100
	TTA– 200
	TTA– 210
	TTA– 320 (120μ)/TTA– 310 (70μ)

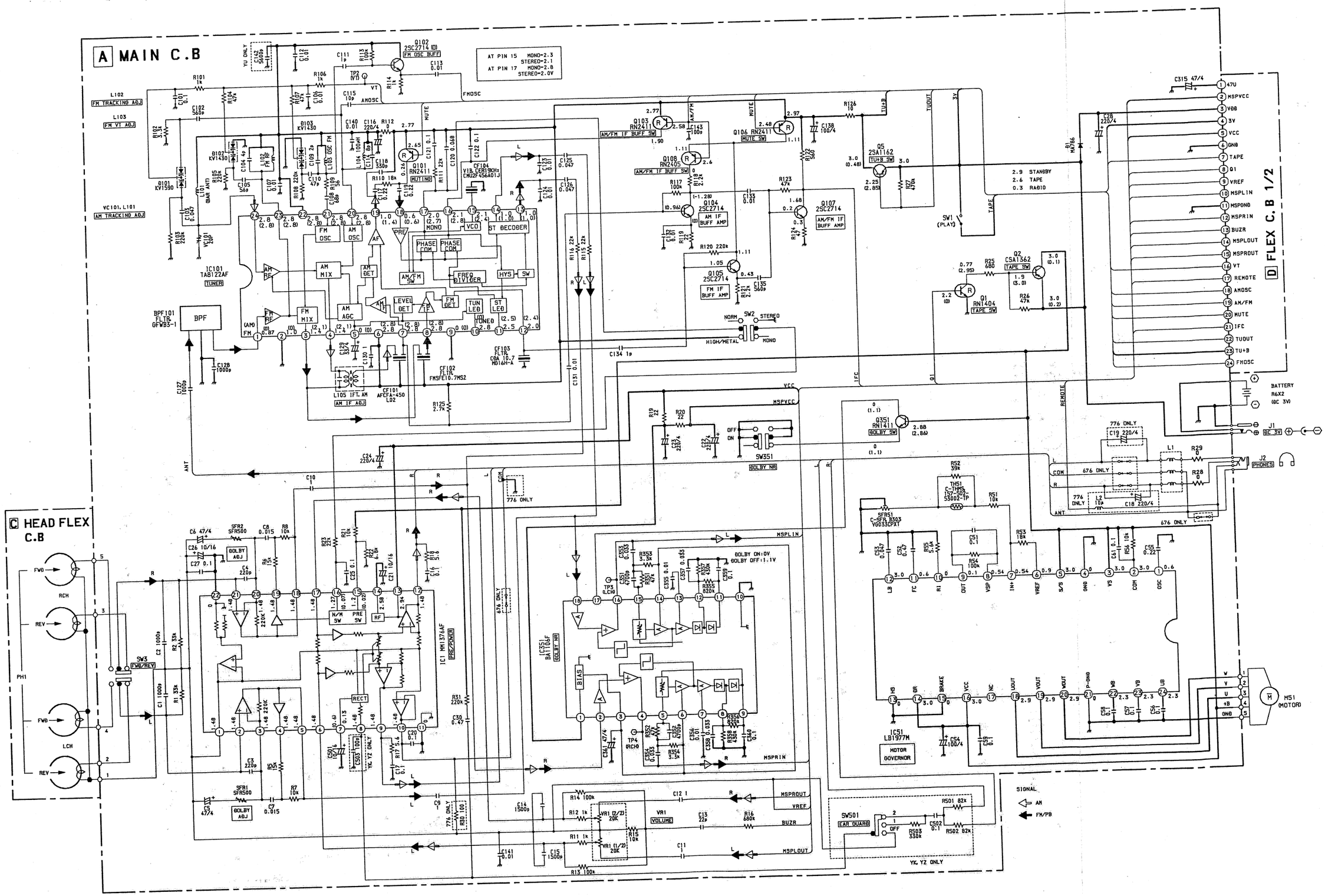
IC BLOCK DIAGRAM

IC,LB1977M



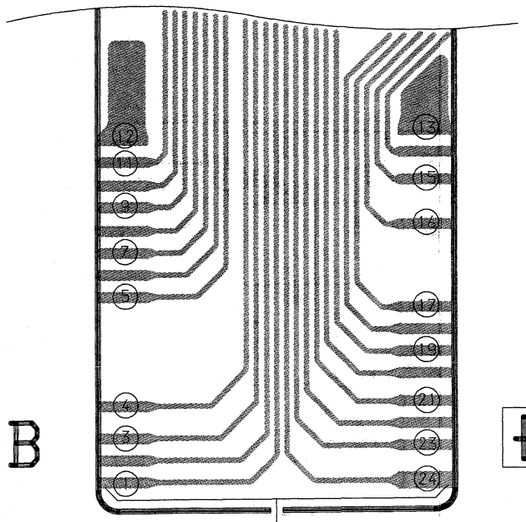

C HEAD FLEX C.B (1/2)
C HEAD FLEX C.B (2/2)
PH1
SW3
FWD/REV
VR1
VOLUME
MIN
MAX
SW351
DOLBY NR
OFF
ON
L101
(BAR ANT)
SW2
STEREO
MONO
NORM
HIGH/METAL
SW1
(PLAY)
J2
PHONES
BATTERY
R6X2 (DC3V)
A MAIN C.B
YK, YZ ONLY
SW501
SW501
EAR GUARD
OFF 1 2
M51
(MOTOR)
J1
DC 3V
D FLEX C.B (1/2)

SCHEMATIC DIAGRAM – 1 (MAIN)



1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J



B CONTROL C.B

Đ FLEX C.B (2/2)

SW201 AUTO PRSET

SW203 ĐOWN

SW202 UP

SW204 RAĐIO ON/OFF BANĐ

SW205 MEMO 1

SW206 MEMO 2

SW207 MEMO 3

SW208 MEMO 4

SW209 MEMO 5

SW210 SLEEP

SW211 MSP

SW213 HOLĐ OF F←→ON

LCĐ201 ĐISPLAY

※

YU, YL	R201	R204
EXCEPT YU, YL	R202	R203

B CONTROL C.B

	JR203		JR204
DISABLE ALIGNMENT BAND	OPEN	ENABLE WORLD AREA	OPEN
ENABLE ALIGNMENT BAND	SHORT	DISABLE WORLD AREA	SHORT
	JR205		JR206
FM IF 10.7MHZ	OPEN	LCD CHECK OFF	OPEN
FM IF 10.75MHZ	SHORT	LCD CHECK ON	SHORT

	R201	R204
YU, YL	R201	R204
EXCEPT YU, YL	R202	R203

SIGNAL
FM/PB
AM

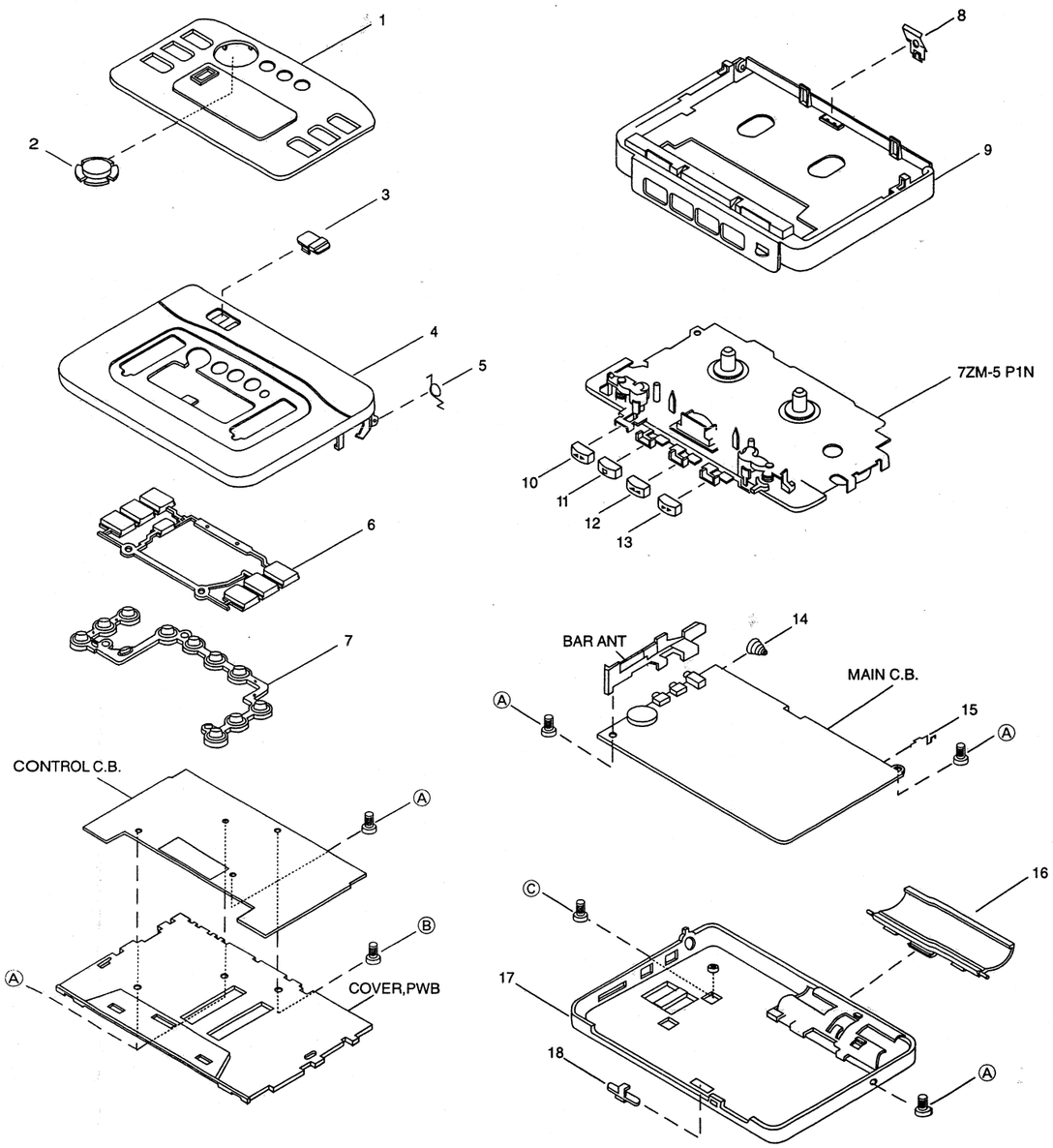
D
FLEX
C.B
2/2

IC DESCRIPTION

IC, TC9318FB-019

Pin No.	Pin Name	I/O	Description
1 ~ 3	COM1~COM3	O	LCD commom output.
4 ~ 21	S1 ~ S18	O	LCD segment output.
22 ~ 26	S19 ~ S23	-	Not used.
27 ~ 30	K0 ~ k3	I	Key matrix input.
31 ~ 34	T0 ~T3	O	Key return timing output.
35	FM/$\overline{AM}$	O	'H': FM, 'L': AM.
36 ~ 38	MSP/S-BASS	O	These three output ports are used for MSP switching and Super-Bass On/Off.
39,40	DES	I	These two input ports determine the destination.
41	TAPE	I	'H': Tape On, 'L': Tape Off.
42	POWER CHECk	I	A/D in for power supply voltage level.
43	REMOTE	I	A/D in for remote controller.
44	POWER SW	O	'H': Power Off, 'L': Power On.
45	HOLD	I	'H': Hold Off, 'L': Hold On.
46	BUZZER	O	Buzzer output.
47	MUTE	O	Mute output.
48	TEST	-	Not used.
49	WAKE UP	I	Wake up the system from memory back-up mode.
50	IF IN	I	IF frequency input.
51	TU OUT	O	When tuner on,'L' level is output.
52	PLL OUT	O	Phase comparison output.
53	GND	-	Ground terminal.
54	FM IN	I	FM oscillator signal input.
55	AM IN	I	AM oscillator signal input.
56	VDD	I	Supply voltage terminal.
57	RESET	I	System reset input.
58	XOUT	-	Crystal oscillator pin.
59	XIN	-	Crystal oscillator pin.
60	VXT	-	Power supply for crystal oscillator.
61	VLCD	-	Reference voltage for LCD driver.
62	C 1	-	Voltage doubler boosting.
63	C 2	-	
64	VEE	-	Constant 1.5V for LCD driver.

MECHANICAL EXPLODED VIEW 1 / 1

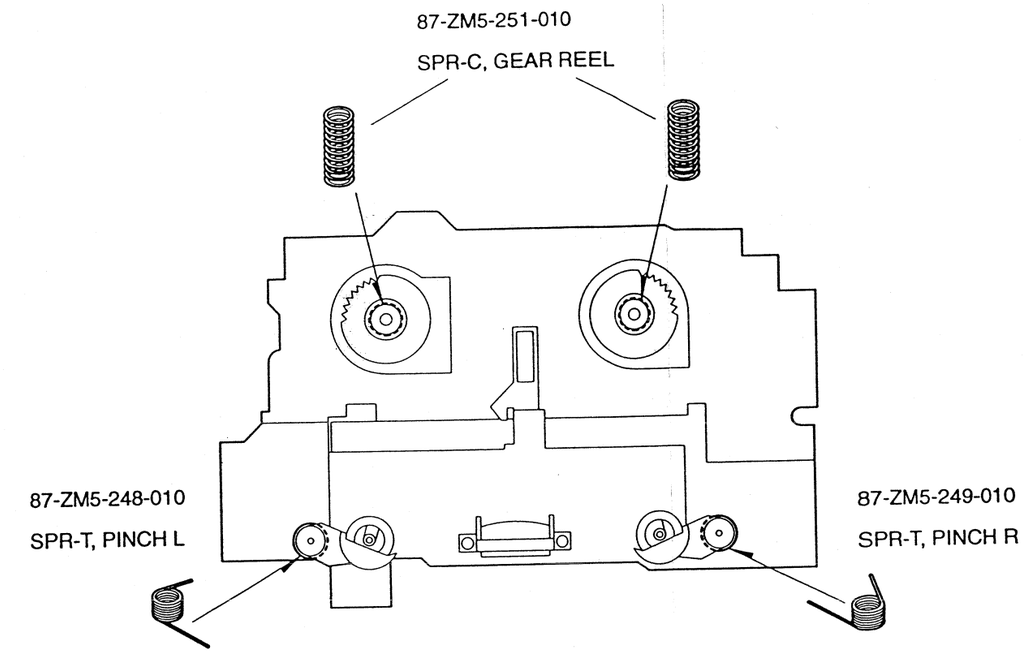


MECHANICAL PARTS LIST 1 / 1

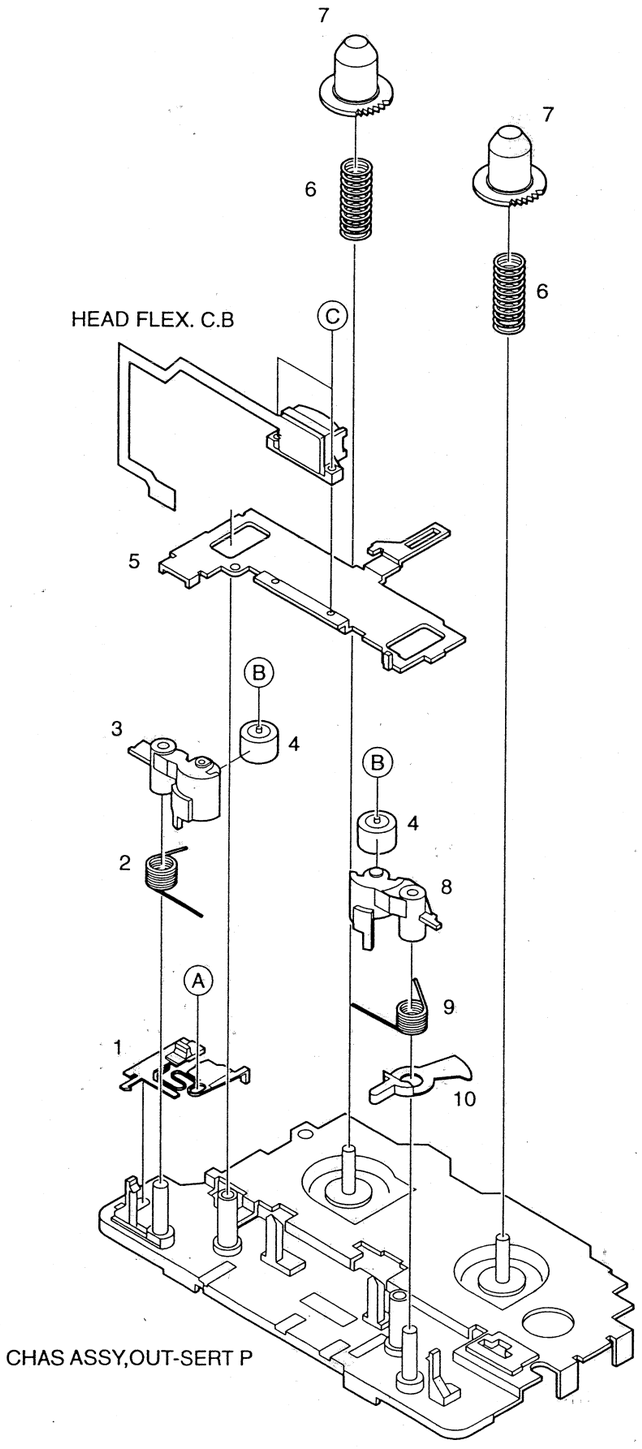
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HRA-005-010		WINDOW,LCD
2	87-HRA-010-010		CAP, MSP
3	87-HRA-007-010		KNOB,SL HOLD
4	87-HRA-001-010		LID,CASS<676YU,YL,YH,[ST]YJ>
4	87-HRA-015-010		LID,CASS (EGS)<YK,YZ>
4	87-HRA-013-010		LID,CASS (TX776)<776YU>
4	87-HRA-016-010		LID,CASS (J002)<[B]YJ>
5	87-HRA-204-010		SPR-T,CLICK
6	87-HRA-009-010		CAP, FUNCTION
7	87-HRA-008-010		BTN,FUNCTION
8	87-HG6-204-110		SPR-P,CASS
9	87-HRA-002-010		FRAME,CENTER<EXCEPT [B]YJ>
9	87-HRA-018-010		FRAME,CENTER (J002)<[B]YJ ONLY>
10	87-HG6-006-010		BTN,PLAY
11	87-HG6-007-010		BTN,STOP
12	87-HG6-008-010		BTN,REW
13	87-HG6-009-010		BTN,FF
14	87-HRA-203-110		BAT-CONTACT,-
15	87-HRA-202-010		BAT-CONTACT,+
16	87-HRA-004-010		LID,BAT<EXCEPT [B]YJ>
16	87-HRA-019-010		LID,BAT (J002)<[B]YJ ONLY>
17	87-HRA-003-010		CABI,REAR<676YU,YL>
17	87-HRA-011-010		CABI,REAR (EGS)<YK,YZ>
17	87-HRA-014-010		CABI,REAR (TX776)<776YU>
17	87-HRA-012-010		CABI,REAR (YJ)<[ST]YJ,YH>
17	87-HRA-017-010		CABI,REAR (J002)<[B]YJ>
18	87-HRL-014-010		KNOB,SL EGS<YK,YZ ONLY>
A	87-067-384-010		VT2+1.4-3.5 SWCH HL
B	87-067-732-010		VT2+1.4-3 CR BLK HL
C	87-067-770-010		VT2+1.7-9 BLK

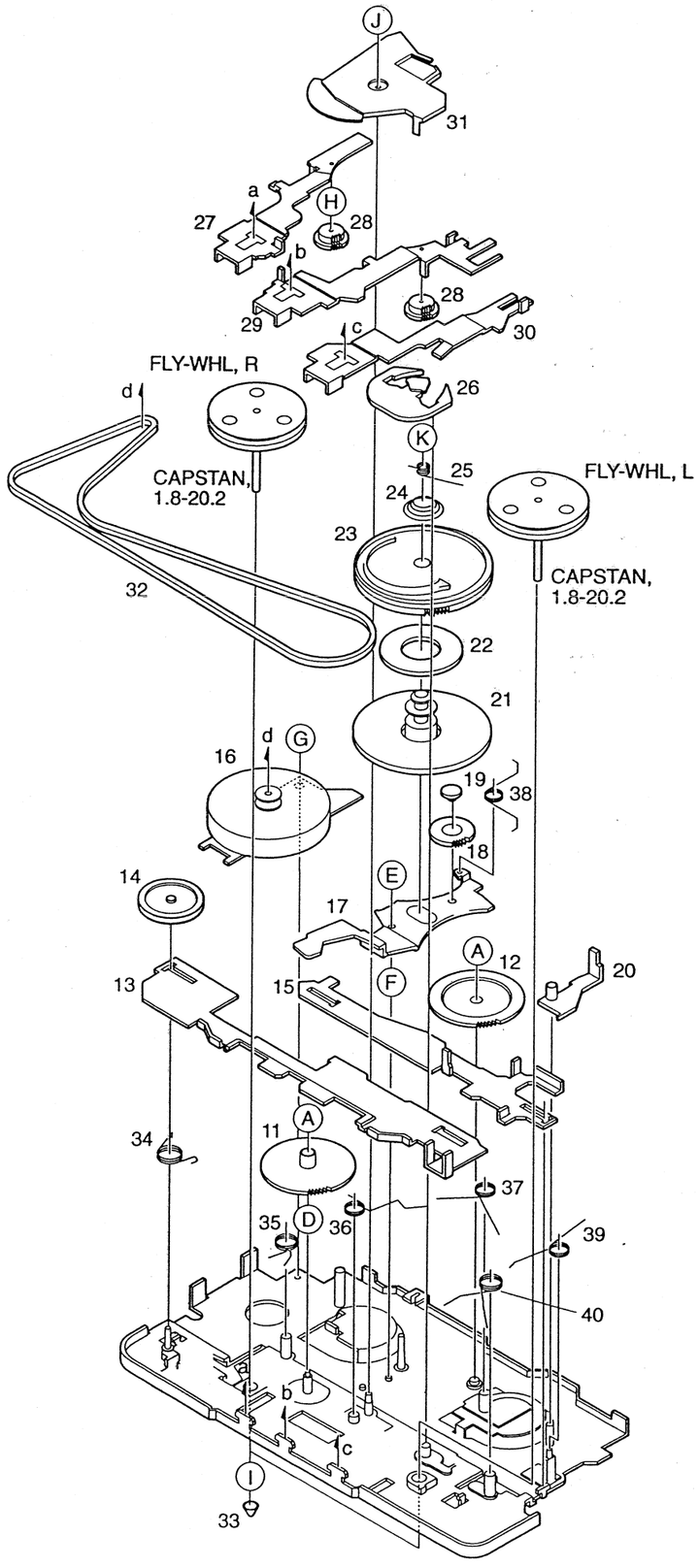
SPRING APPLICATION POSITION



TAPE MECHANISM EXPLODED VIEW 1 / 1



CHAS ASSY,OUT-SERT P



TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-ZM5-218-010		LEVER,MOD SEL 2
2	87-ZM5-248-010		SPR-T,PINCH L
3	87-ZM5-232-010		ARM,PINCH L
4	87-ZM5-255-010		ROLLER ASSY,PINCH
5	87-ZM5-210-010		LEVER,PLAY
6	87-ZM5-251-010		SPR-C,GEAR REEL
7	87-ZM5-224-010		GEAR,REEL
8	87-ZM5-233-010		ARM,PINCH R
9	87-ZM5-249-010		SPR-T,PINCH R
10	87-ZM5-219-010		BTN,DIR KNOB
11	87-ZM5-221-010		GEAR,IDL A
12	87-ZM5-222-010		GEAR,IDL B
13	87-ZM5-212-010		LEVER,DIR P
14	85-ZM1-212-010		PULLY PM 2
15	87-ZM5-213-010		LEVER,LOCK
16	M8-6ZS-390-000		ABL-63A
17	87-ZM5-208-010		LEVER ASSY,T-UP
18	87-ZM5-223-010		GEAR,PLAY
19	87-ZM5-259-010		CAP,PLAY
20	87-ZM5-216-010		LEVER,PLAY SW
21	87-ZM5-228-010		GEAR,SLIP B
22	87-ZM5-229-010		FELT,CLUTCH
23	87-ZM5-227-010		GEAR,SLIP A
24	87-ZM5-230-010		SPR-C,SLIP
25	87-ZM5-246-010		SPR-T,AUTO
26	87-ZM5-214-010		LEVER,AUTO
27	87-ZM5-204-010		LEVER ASSY,FF
28	87-ZM5-225-010		GEAR,FF/REW
29	87-ZM5-206-010		LEVER ASSY,REW
30	87-ZM5-211-010		LEVER,STOP
31	87-ZM5-261-010		LEVER,AUTO 2S
32	87-ZM5-253-010		BELT,MAIN
33	87-ZM5-258-010		CAP,CAPSTAN
34	87-ZM5-245-010		SPR-T,DIR
35	87-ZM5-243-010		SPR-T,FF
36	87-ZM5-247-010		SPR-T,AUTO 2
37	87-ZM5-244-010		SPR-T,REW
38	87-ZM5-250-010		SPR-T,LEVER T-UP
39	87-ZM5-241-010		SPR-T,LEVER LOCK
40	87-ZM5-242-010		SPR-T,PLAY
A	87-067-860-010		W-P,0.95-3-0.4
B	87-B10-085-010		W-L,1.31-3-0.2
C	87-ZM5-270-010		S-SCREW,1.4-5-STP
D	87-B10-084-010		W-L,2.2-3.2-0.1
E	87-B10-080-010		W-L,0.97-3-0.35
F	87-B10-086-010		W-L,1.57-2.8-0.1
G	87-ZM5-271-010		S-SCREW,1.4-2.6-STP
H	87-B10-087-010		W-L,1.25-2.26-0.1 SLT
I	87-B10-070-010		W-P,1.55-2.9-0.25 SLIT
J	87-ZM5-083-010		W-L,0.95-2.5-0.3
K	87-B10-083-010		W-L,0.95-2.5-0.3

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

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